

Aquilegia formosa (Fischer) Sitcha & Unalaska
Delphinium bicolor (Nutt.) Dry hills nr "Flat"
- Head River, towards southern sources
of the Oregon. 4

D. paucifolium (Nutt.) Rocky Mts & Blue Mts
of the Oregon. 4

Chryseis cespitosa (Lindl.) California

Dendromecon rigidum (Nutt.) Summits of Mts
nr St. Barbara; Monterey, California.

Cheiranthus capitata (Nutt.) California & Oregon.

" *Pallasii* (Pursh) 4 N. W. Coast.

? " *hesperidoides* 4 Pennsylv. Kent. Ill. & Ark.

Cardamine rotundifolia (Nutt.) (Arabis Douglassii Torr.)
Audon's Bay, Rocky Mts, W. New York & Kentucky

" *purpurea* Is² of St. Lawrence & Kotzebue's Sound.

" *angulata*. Banks of the Oregon.

" *digitata* (Rich.) Arctic America

Dentaria integrifolia (Nutt.)

Parrya macrocarpa (R. Brown) Arctic & N. W. America

" *arctica* (R. B.) — — — — —

Phenacalis cheiranthoides (Nutt.) High hills E of
Walla Wallah River, & on rocks on upper
Oregon.

Hesperis matronalis

" *Menziesii* (Hook) California

Erysimum arkansanum (Nutt.) Plains of Arkansas.

" *pumilum* (Nutt.) Dry elev. plains of Rocky Mts

" *grandiflorum* (Nutt.) 4 Sand Hills of

Point Pinos nr Monterey, Upper California

Stanleya pinnatifida (Nutt.) Rocks, upper Missouri

& nr head of Lewis's River

Warea amplexifolia (Nutt.)

Selenia aurea (Nutt.) Wet prairies of Arkansas & Texas

Vericaria arctica (Richard)

York 29/7 mo. 1872.

Dear Dr Gray recd. Aug. 29

I am in rect of thy favour
of June 17th, enclosing dried flowers of
the yellow Aquilegia, which I consider
most beautiful, & a plant highly desirable
to obtain roots & seeds of in quantity, if
possible. It is remarkable as a "var"
of *A. carulea*. Probably all the plants
mentioned in Dr. Parry's letter, sent to
me, would be valuable. I see he
mentions a "Mertensia sibirica". This
genus, & the allied Lithospermum, are
favourites of mine, so that anything
new & showy belonging to them would
be very welcome. Plemonium congestum
& Claytonia megarhiza also would both
be valuable no doubt. Where possible,
roots should be sent, & seeds also. The
chance by seed is generally much more
certain than by roots; but if roots do suc-
ceed, there is a gain in time which is of
great importance: for even if we get a
crop of seedlings, yet if we cannot sell

till we have seen them flower, the loss of time & remuneration is great. On the other hand a few roots blooming "proves" the plant, & renders the stock of unflowered seedlings saleable immediately.

Generally speaking, we have found that roots travel best when packed in Boxes in fresh (rather dry) moss. The moss should not be extremely dry, & yet on no account wet: but just as you would gather it in woods when ^{not moist such with rain.} ~~then we are in a way to dry.~~ We find an advantage in alternating layers of paper, & laying the roots closely side by side upon it; covering them with another layer of paper, & then a layer of an inch or two of moss, & so on. All packages should be sent by the quickest line of conveyance, & by Steamer. I think that Austin, Baldwin & Co have often forwarded packages for us promptly. Casks are not so good as square ^{or oblong} Boxes: for when casks are rolled, the contents are liable to form

a hard compact mass in the middle! A few Birch twigs (without leaves) interspersed among the moss &c tend advantageously to keep the bulk "open" - i.e. non-compressed.

Having been absent from home during most of last month, I have not had opportunity to examine further into the Flora of North America, but I will again enumerate the names of some plants of which I have read the descriptions & think well worth obtaining if possible. (See last page).

All perennial Gentians should be sent. We think we can cultivate almost everything if we know its native soil, situation &c! Please present my kind regards to Dr. Parry from whom I shall no doubt hear in due season. Trusting you will both be successful & enjoy your rambles in the wild regions you propose to visit. I remain thy friend very resp^{ly}
(see over) J. A. Backhouse